

Fig. 1

Transducer	Parameter	4*(1-3) 100 Ω
Backing:	Z(MRayl)	2
Metal towards backing:	Z (MRayl) c (m/s) l (μ m)	30 3750 15
Elem. a:	Lsa(μ H) Cca(pF) Rlsa(Ω) Z ^D (MRayl) c (m/s) h (10^9 V/m) ϵ_r^s l (μ m) Area (mm ²)	6 100 100 14.06 3569 1.626 888 140 3.0 (2 stk.)
Metal between sub-elements:	Z (MRayl) c (m/s) l (μ m)	20 3750 15 (3 stk.)
Elem. b:	Lsb(μ H) Ccb(pF) Rlsb(Ω) Z ^D (MRayl) c (m/s) h (10^9 V/m) ϵ_r^s l (μ m) Area (mm ²)	16 100 100 14.06 3569 1.626 888 116 9.0 (2 stk.)
Metal towards front:	Z (MRayl) c (m/s) l (μ m)	30 3750 15
Transf. 1:	Z(MRayl) l/ λ v/2.5MHz	8.04 0.25
Transf. 2:	Z(MRayl) l/ λ v/2.5MHz	2.63 0.25

Fig. 2

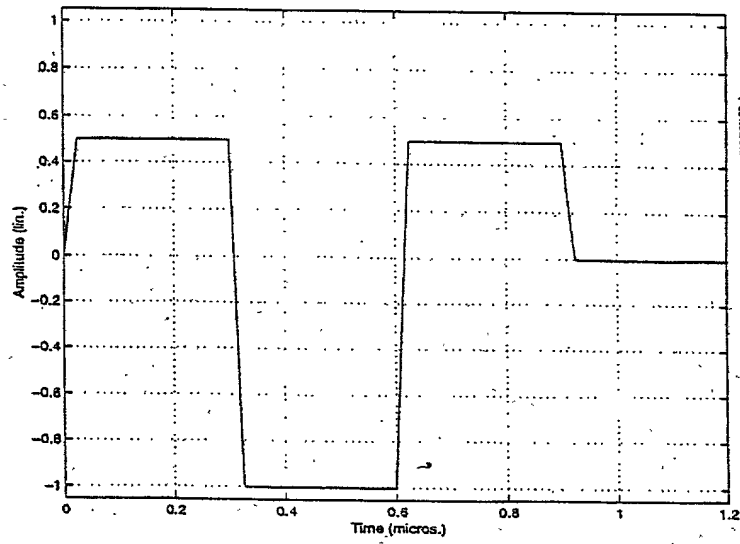


Fig. 3

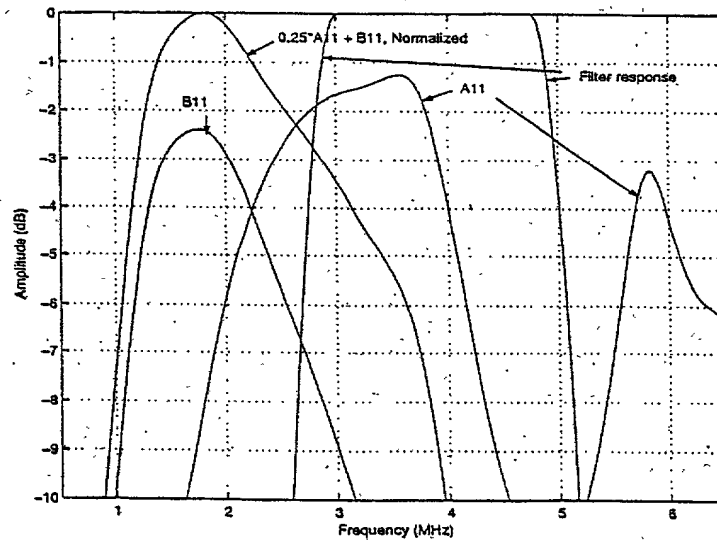


Fig. 4

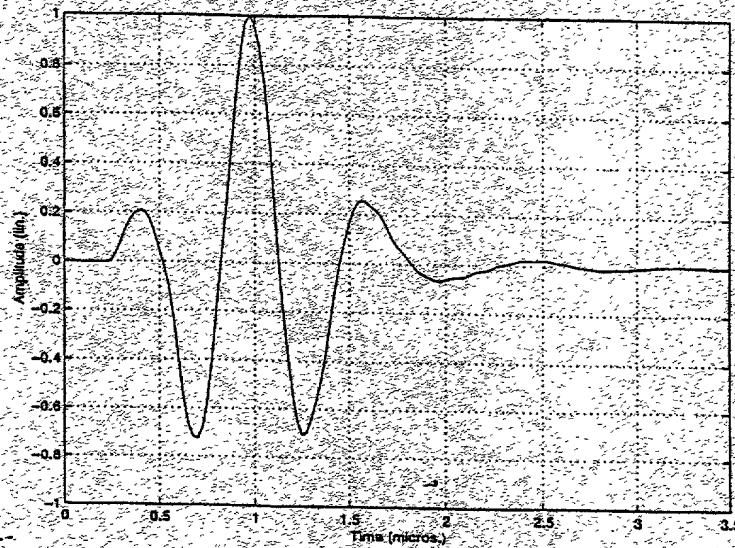


Fig. 5

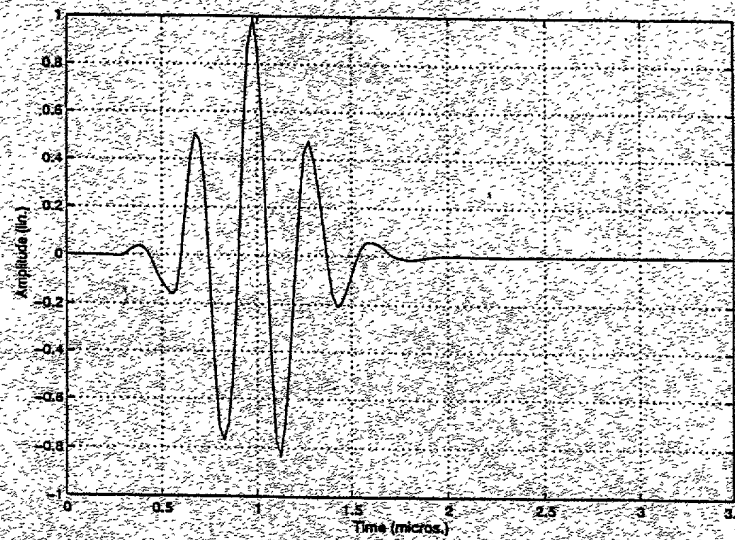


Fig. 6

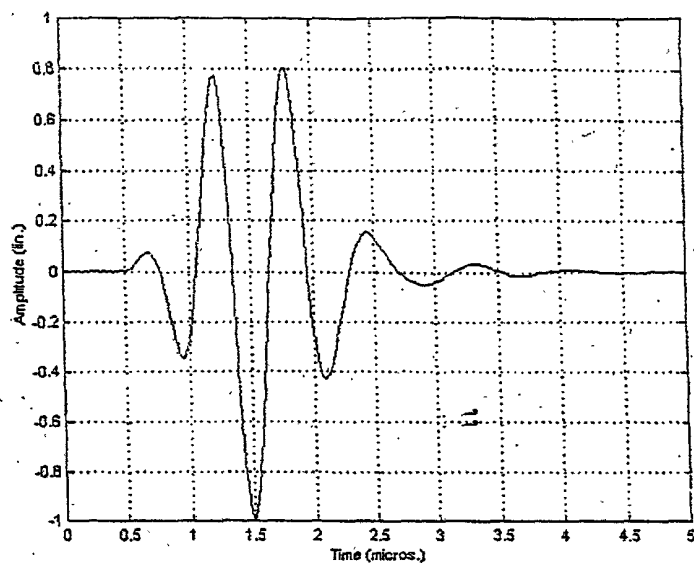


Fig. 7: Received first harmonic signal from the pressure in Fig. 5, when using the response B11 in reception.

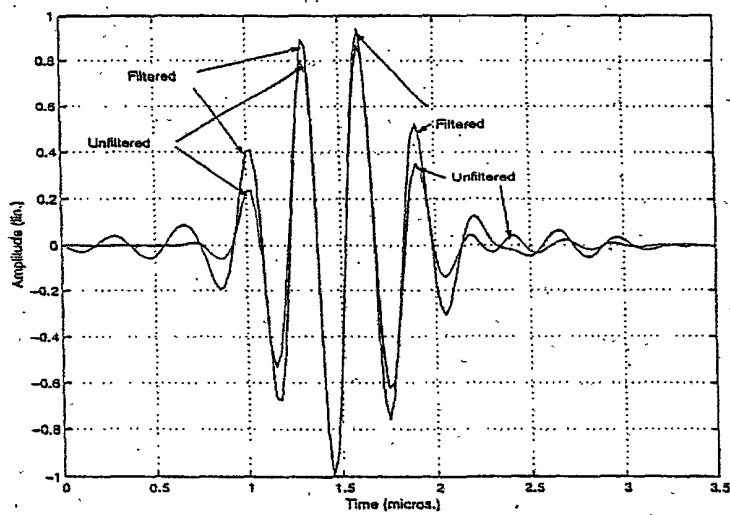


Fig. 8

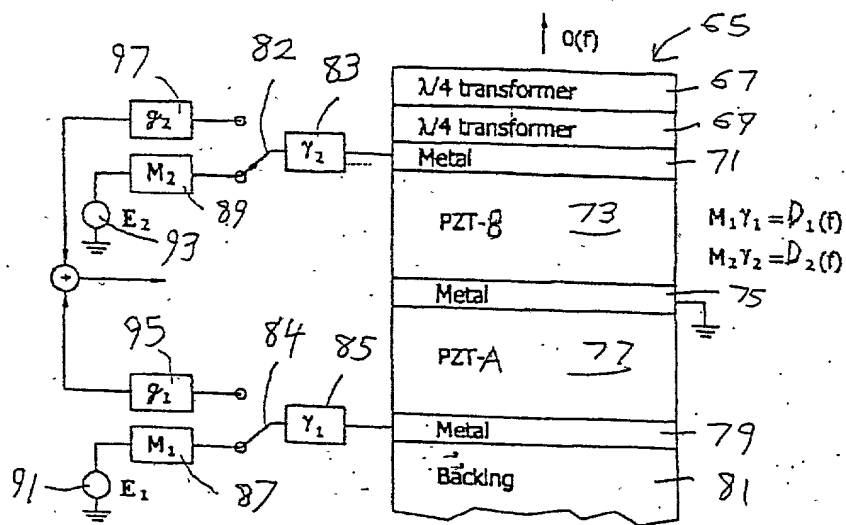


Fig. 9

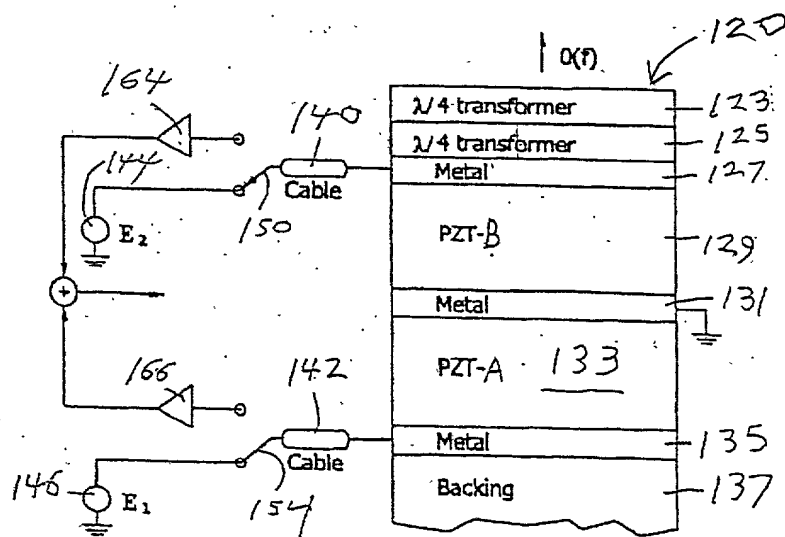


Fig. 10

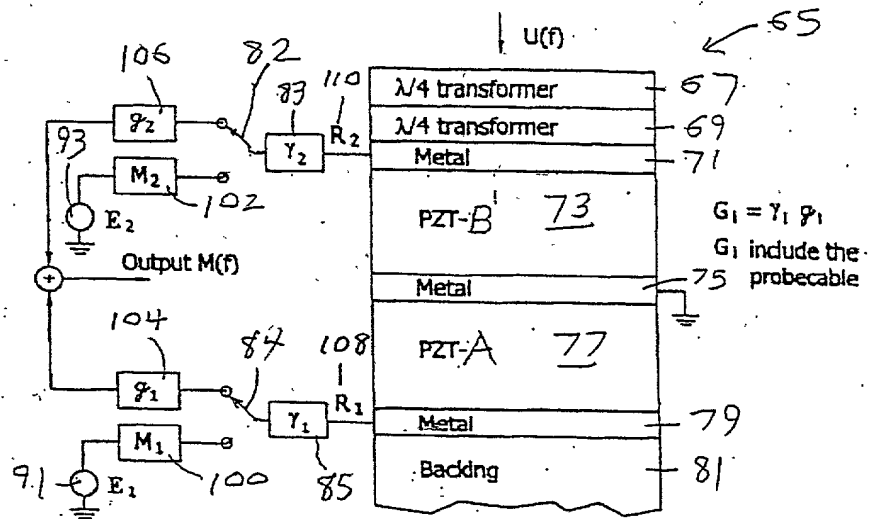


Fig. 11

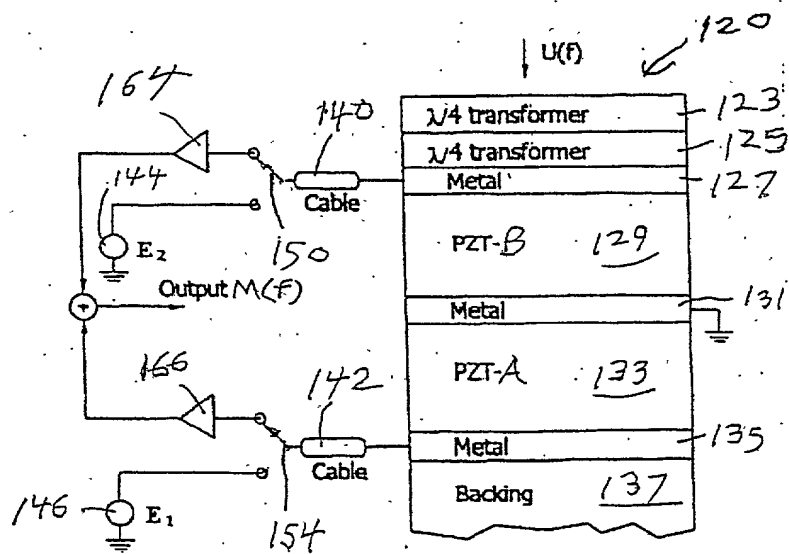
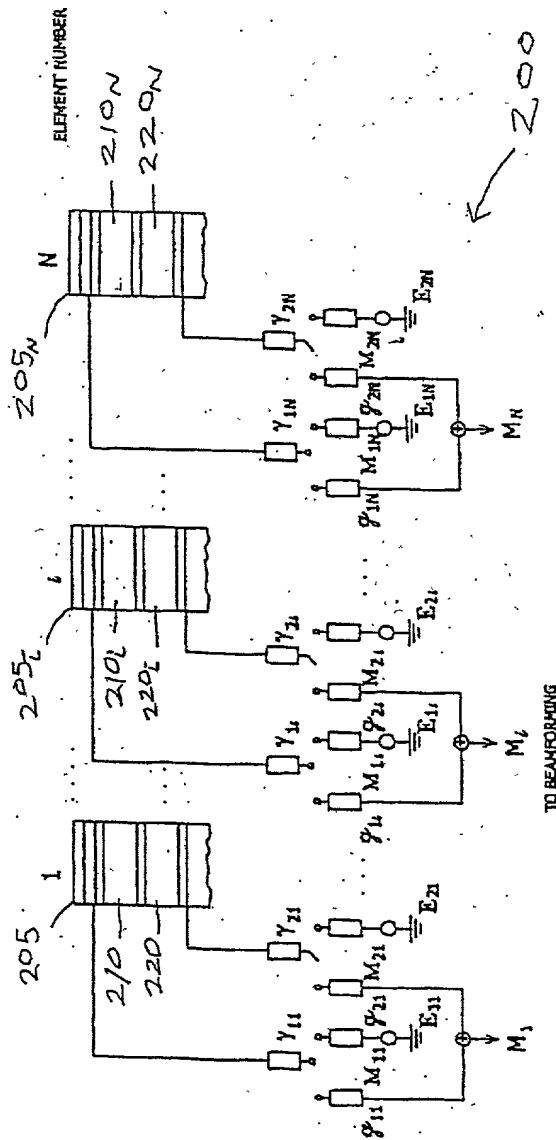


Fig. 12



ARRAY CONFIGURATION WITH ELEMENT VARIABLE FILTERING

Fig. 13